A MITSUBISHI ELECTRIC

CITY **Multi**® Outdoor Unit: 14-TON PUHY-P168TSHMU-A

(Consists of One PUHY-P96THMU-A, One PUHY-P72THMU-A, and One CMY-Y100VBK2 Twinning Kit)

Job Name:

Location:

Drawing Reference:	Schedule No.

System No.:

OUTDOOR VRFZ HEAT PUMP SYSTEM FEATURES

- 3-phase, 208/230V systems
- · Modular variable refrigerant flow zoning (VRFZ) systems; smaller capacity units can be piped together to form a single, large-capacity two-pipe system
- · Compact size for each outdoor module; can be transported through standard-sized doorways for installation
- Required Twinning Kit allows for easy field piping connection
- Selectable fan static, 0.12 or 0.24"WG external static pressure; factory set to 0"WG
- Maximum Total Refrigerant Piping Length: 3,280'; Maximum Refrigerant Line Length: 541'; Maximum Control Wiring Length: 1,650'
- Connects to CITY MULTI indoor units: controlled via CITY MULTI Controls Network (CMCN)
- · External finish: Pre-coated Galvanized-steel Sheets
- Operating Temperature Range Cooling (Outdoor): 23° ~ 109°F (-5° ~ +43°C) DB Heating (Outdoor): -4° ~ +60°F (-20° ~ +16°C) WB







OPTIONAL PARTS

□ Twinning Kit*.....CMY-Y100VBK2 □ T-Branch Joint (≤ 72,000 Btu/h).....CMY-Y102S-G2

PUHY-P72THMU-A

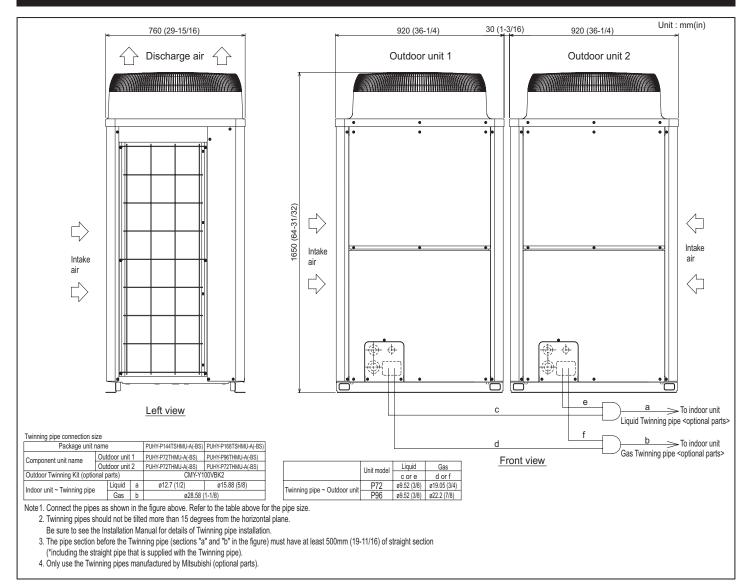
- □ T-Branch Joint (≤ 144,000 Btu/h).....CMY-Y102L-G2 □ T-Branch Joint (≤ 234,000 Btu/h).....CMY-Y202-G2
- □ Header (4-Branch; ≤ 72,000 Btu/h).....CMY-Y104-G
- □ Header (8-Branch; ≤ 144,000 Btu/h).....CMY-Y108-G □ Header (10-Branch; ≤ 234,000 Btu/h).....CMY-Y1010-G

* Twinning Kit is necessary to combine the refrigerant flows of the modules and is included in the outdoor unit set.

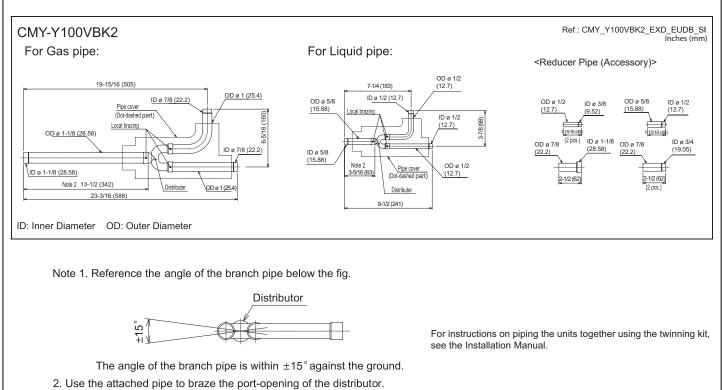
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Specifications		System	Module 1	Module 2
Unit Type		PUHY-P168TSHMU-A	PUHY-P96THMU-A	PUHY-P72THMU-A
Nominal Cooling Capacity	Btu/h	168,000	96,000	72,000
Nominal Heating Capacity	Btu/h	188,000	108,000	80,000
External Dimensions (H x W x D)	In. / mm	Refer to Module Data	65 x 36-1/4 x 29-15/16 / 1,650 x 920 x 760	65 x 36-1/4 x 29-15/16 / 1,650 x 920 x 760
Net Weight	Lbs. / kg	882 / 400	441 / 200	441 / 200
Electrical Power Requirements	Voltage, Phase, Hertz	Refer to Module Data**	208/230V, 3-phase, 60Hz	
Cooling Power Input	kW	14.11	Refer to System Data	
Heating Power Input	kW	14.73		
Cooling Current (208/230V)	Α	43.5 / 39.3	Refer to System Data	
Heating Current (208/230V)	Α	45.4 / 41.0		
Minimum Circuit Ampacity (MCA)**	А	Refer to Module Data**	35 / 32**	23 / 21**
Maximum Overcurrent Protection (MOCP)**	А	Refer to Module Data**	40 / 40**	30 / 30**
Piping Diameter				
From Twinning Kit to Indoor Units	Liquid (High Pressure)	5/8 / 15.88	Refer to System Data	
(Brazed) (In. / mm)	Gas (Low Pressure)	1-1/8 / 28.58		
From Modules to Twinning Kit (Brazed) (In. / mm)	Liquid (High Pressure)	Defer to Medule Dete	3/8 / 9.52	3/8 / 9.52
	Gas (Low Pressure)	Refer to Module Data	7/8 / 22.2	3/4 / 19.05
Indoor Unit	Total Capacity	50 to 130% of ODUs	Refer to System Data	
	Model / Quantity	P06 ~ P96 / 1 to 36		
Sound Pressure Levels	dB(A)	61.0	58.0	58.0
Fan				
Type x Quantity		Refer to Module Data	Propeller Fan x 1	Propeller Fan x 1
Airflow Rate	CFM		7,050	7,050
Direct-drive Inverter Motor Output	kW		0.92	0.92
Compressor Operating Range		8% to 100%	Refer to System Data	
Compressor Type x Quantity			Inverter-driven Scroll Hermetic x 1	Inverter-driven Scroll Hermetic x 1
Compressor Motor Output	kW	Refer to Module Data	6.8	5.1
Compressor Crankcase Heater	kW		0.051	0.051
Refrigerant		Refer to Module Data	R410A	
Lubricant			MEL32	
High-pressure Protection Device		Refer to Module Data	601 psi / 4.15 MPa	601 psi / 4.15 MPa
Compressor / Fan Protection Device			Overheat Protection / Thermal Switch	Overheat Protection / Thermal Switch
Inverter Protection Device			Overheat / Overcurrent Protection	Overheat / Overcurrent Protection
Blue Fin Anti-corrosion Protection ≥1µm thick; Salt Spray Test Method			t applied to condenser coil that protect	cts it from air contaminants;
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** Each individual module requires a separate electrical connection. Reference electrical data for each individual module.

Outdoor Unit: PUHY-P168TSHMU-A – DIMENSIONS

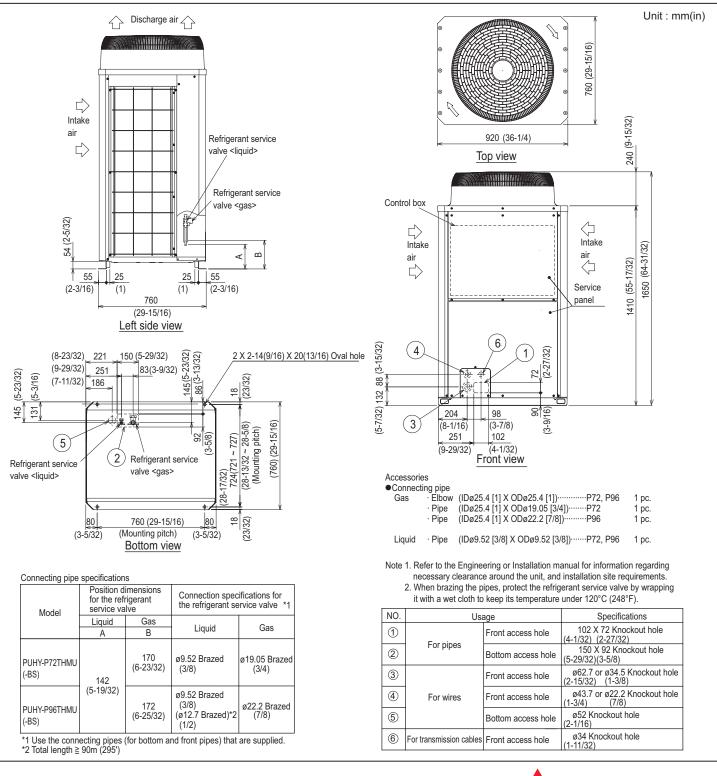


Twinning Kit: CMY-Y100VBK2



3. Pipe diameter is indicated by inside diameter.

Modules 1 and 2: PUHY-P96THMU-A and PUHY-P72THMU-A - DIMENSIONS





Mitsubishi Electric Air Conditioning & Refrigeration Systems Works acquired ISO 9001 certification under Series 9000 of the International Standard Organization (ISO) based on a review of quality warranties for the production of refrige ation and a nditioning equipment.

SO Authorization System The ISO 9000 series is a plant authorization system relating to quality warranties as sipulated by the ISO. ISO 9001 certifies quality warranties based on the "design, development, production, installation and auxiliary services" for products built at development, produc an authorized plant.

Mitsubishi Electric Air Conditioning & Refrigeration Systems Works acquired environmental management system standard ISO 14001 certification.

The ISO 14000 series is a set of standards applying to environmental protection set by the International Standard Organization (ISO).

Certificate Number EC97J1227

ISO 14001

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Specifications are subject to change without notice.